Audible Thermoplastic Pavement Markings

What is Thermoplastic Pavement Markings and how it's installed???

- What is Thermoplastic Pavement Markings and how's it installed?

  1. *Multi component compound: Resins, pigment, glass beads, binders, and fillers.*
  2. *Heated to 400°*
  3. *Extrusion die or by ribbon gun.*
  4. *90 mils thick (edge & center line); 125 mils (intersections, stop bar, etc.)*
  5. *Double drop glass bead application. Size no.4 (lg.) & no.2 (sm.).*


Supplied in 50-lb heat-degradable bags. Also available in block form.


HOT


C200849

Why Audible Thermoplastic Pavement Markings??

As an alternative to ground-in rumble strips when there’s little to no shoulders available on oxidized asphalt.

To reduce vehicle lane departures and crossover crashes on two-lane two-way roadways.

What is Audible Thermoplastic Pavement Markings???

- Inverted Profile Pavement Marking (Audible) that is hot applied to the pavement surface. This pavement marking shall be formed during application with a profile that will create an audible effect when driven over. The inverted profile allows for the rapid draining of the pavement marking which results in a highly reflective marking in a heavy rain. The Inverted Profile Pavement Marking (Audible) System shall be composed of 3 items: a thermoplastic marking compound, a double drop glass bead system, and special equipment capable of producing an Audible Inverted Profile Pavement Marking.

Txdot special spec. 5270

Three manufacturers submitted audible pavement marking systems through LADOTD New Product Evaluation Program.

1. Crown Technologies	Cookies and UFO Audible Vibratory System
2. Ennis Flint	Vibraline I and II
3. Swarco	Swarco Profile Thermoplastic

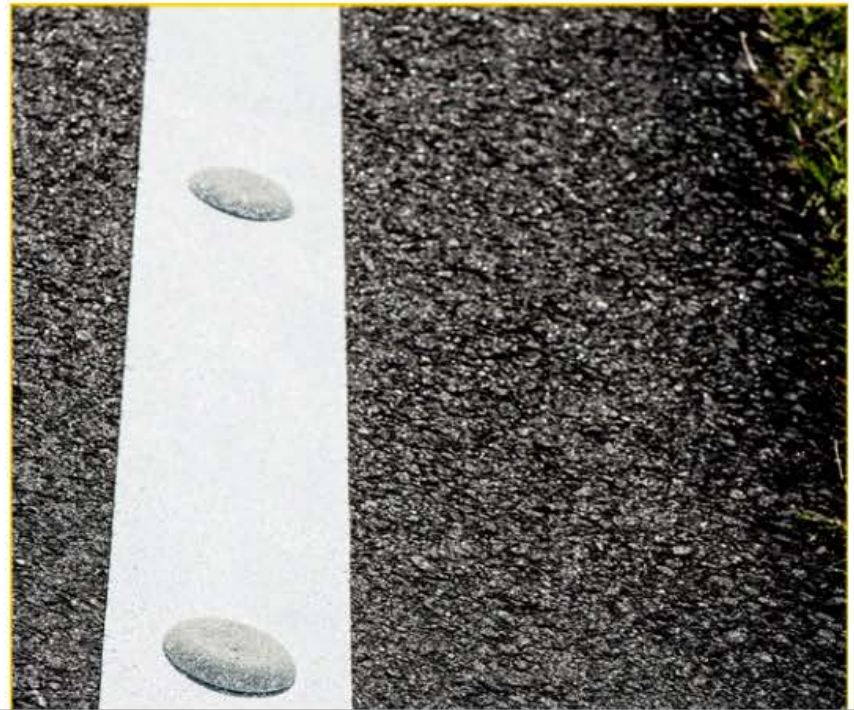
All materials installed used Swarco glass beads no. 4 and no. 2.

Crown Cookies®

Audible Vibratory System

The basics...

Crown Cookies® are audible pavement markers designed to be applied in unison when installing TuffLine® and EcoTherm® baseline thermoplastic pavement marking products. Crown Cookies® are applied during TuffLine® and EcoTherm® thermoplastic pavement marking applications in a unique "one-pass" striping system without adding additional traffic control common to most other systems/installs. Standard ribbon gun and bead dispenser are used in unison with Crown Technology's unique Crown Cookies® dispenser that is easily mounted on most striping trucks with little modification. Crown Cookies® installed on TuffLine® and/or EcoTherm® baseline products becomes the go to pavement marking system when superior all-around pavement marking performance is required.



CROWN TECHNOLOGY, LLC

PRODUCTS LATEST BUZZ COMPANY INFO CONTACT US

Crown UFO's®

Reflective Pavement Markers

The basics...

Crown UFO's® are Crown Technology's patent pending reflective pavement marking markers designed to be applied in unison when installing TuffLine® and EcoTherm® baseline thermoplastic pavement marking products. Crown UFO's® are applied during TuffLine® and EcoTherm® thermoplastic pavement marking applications in a unique "one-pass" striping system without adding additional traffic control common to most other systems/installs. Standard ribbon gun and bead dispenser are used in unison with Crown Technology's

Vibraline Hot-Applied Thermoplastic

VIBRALINE I

- Specialized formulation for profiled markings to enhance wet-reflective visibility
- Delivers an audible delineation and "rumble" to alert motorists of lane departure

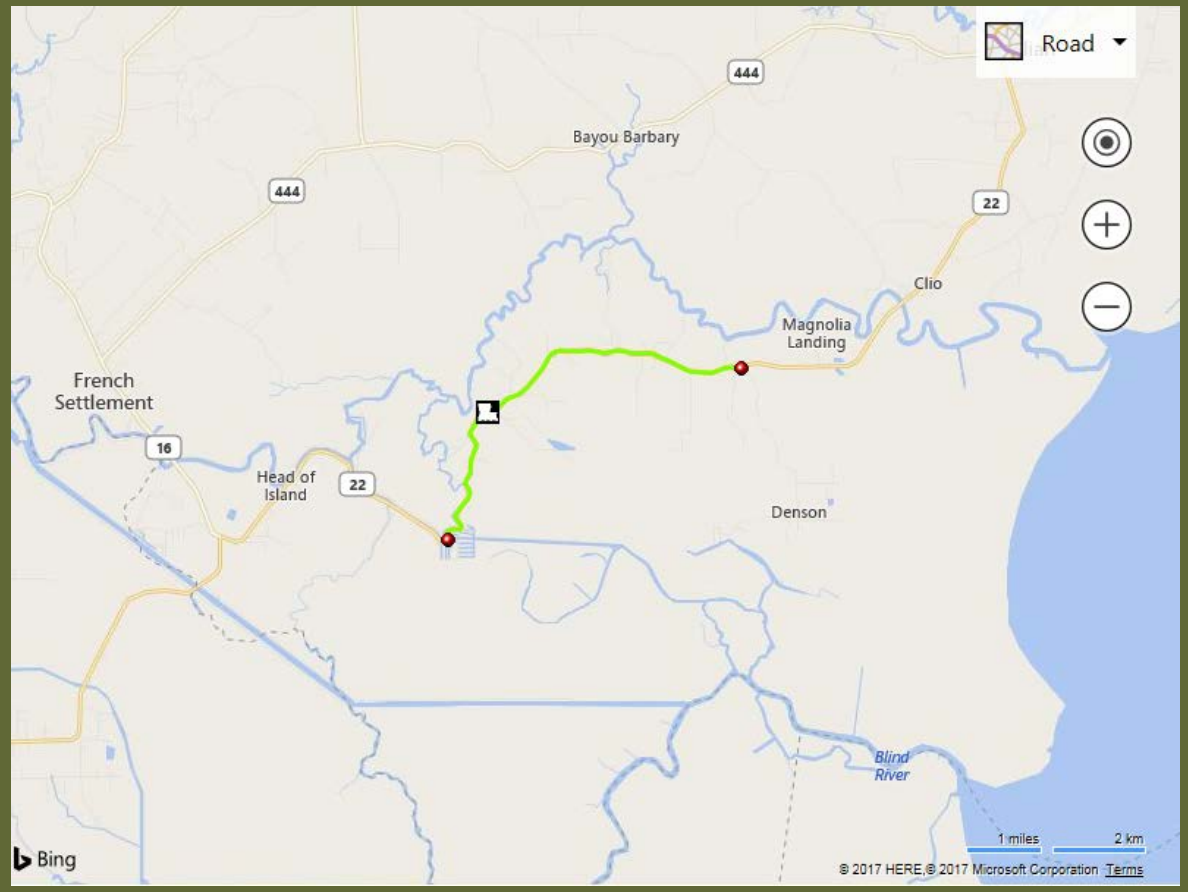
VIBRALINE II

- Specialized formula for raised profile to be added to an existing thermoplastic flat line
- Retrofit to enhance wet-reflective visibility and audible delineation


SWARCO PROFILE THERMOPLASTIC

Project H.012443.6
LA 22: Audible Thermoplastic Test

Location: LA 22, Maurepas, La
District 62; Livingston Parish

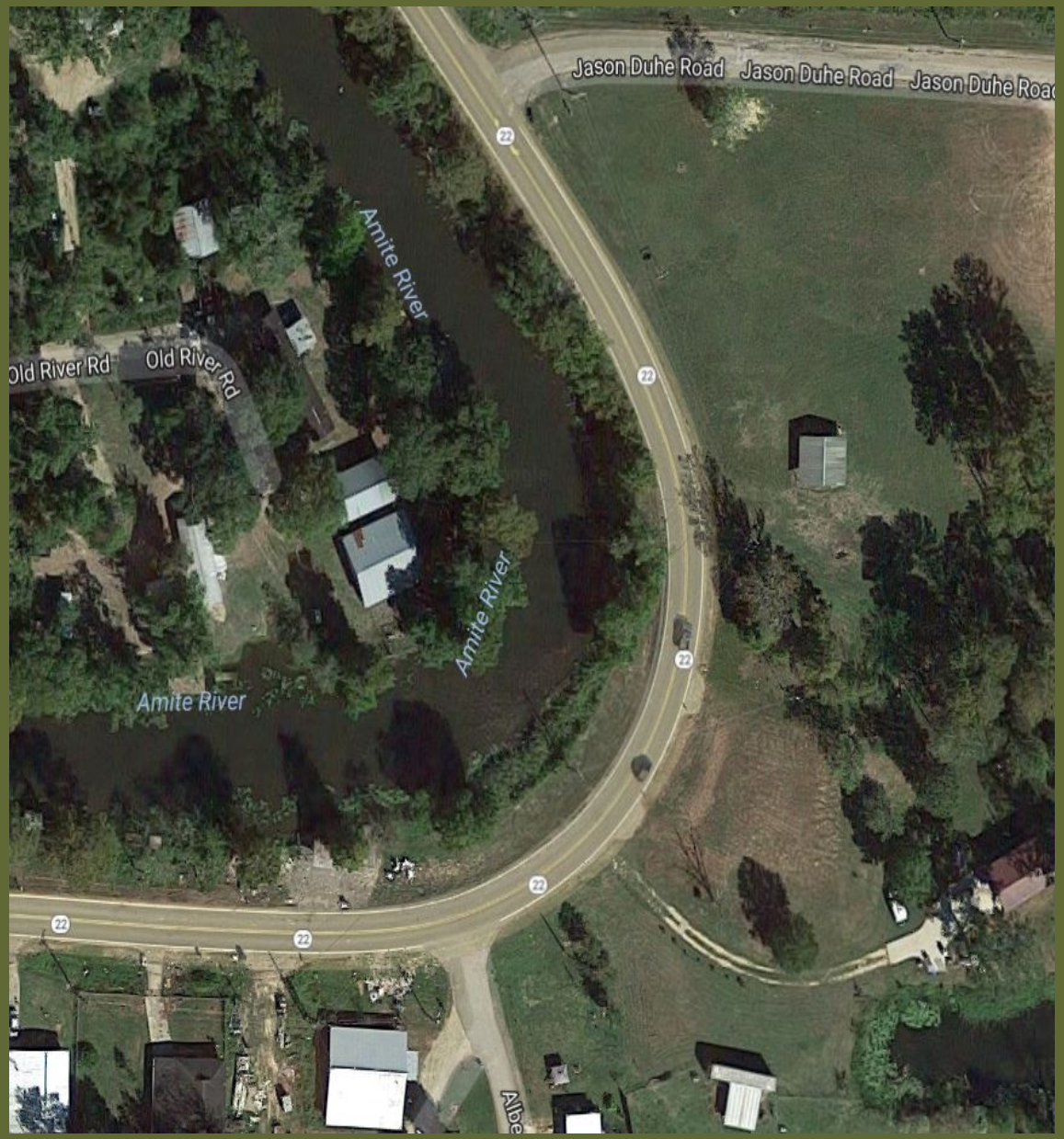


LA 22

Asphalt; Two Lane Undivided Major Collector; 4000 ADT;

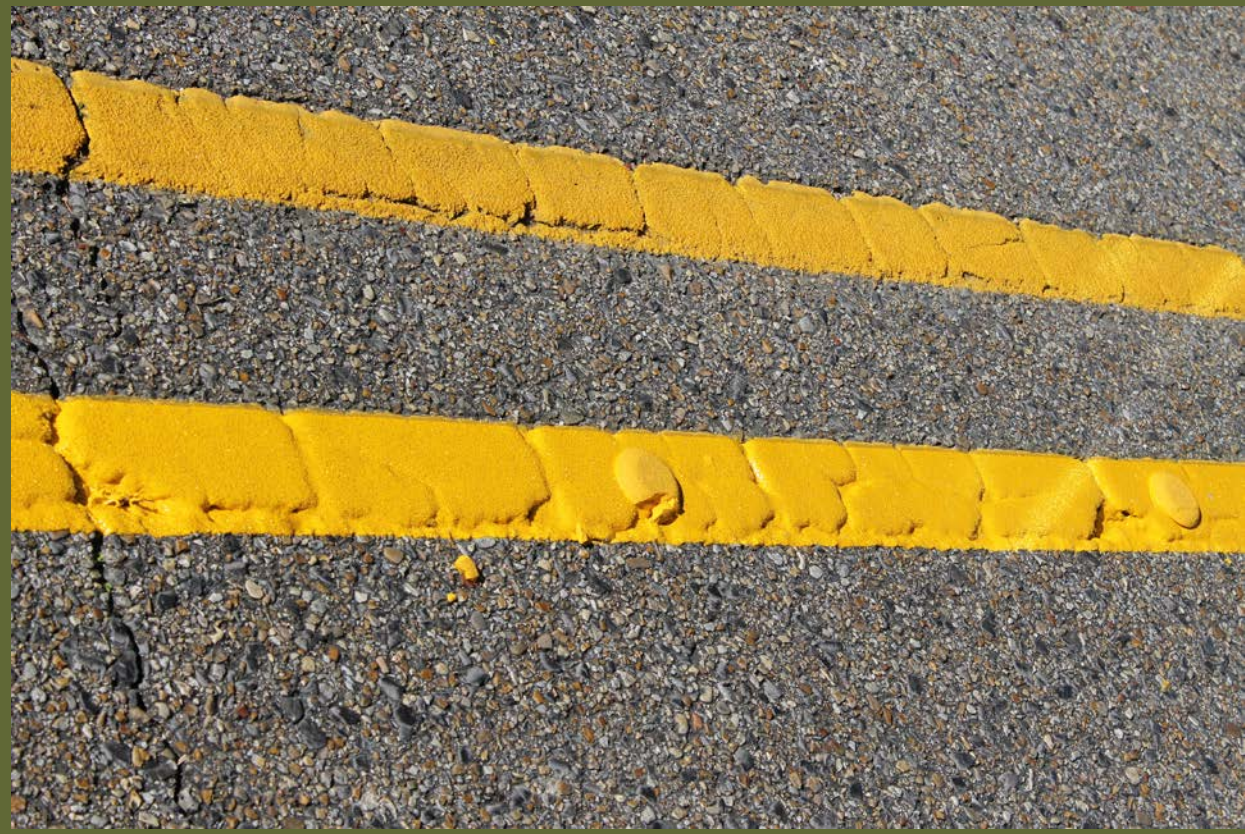

Haynes Rd
Haynes Rd
Haynes Rd
Robinson Rd
St Stephen
Catholic Church
Koto Rd
Koto Rd
22

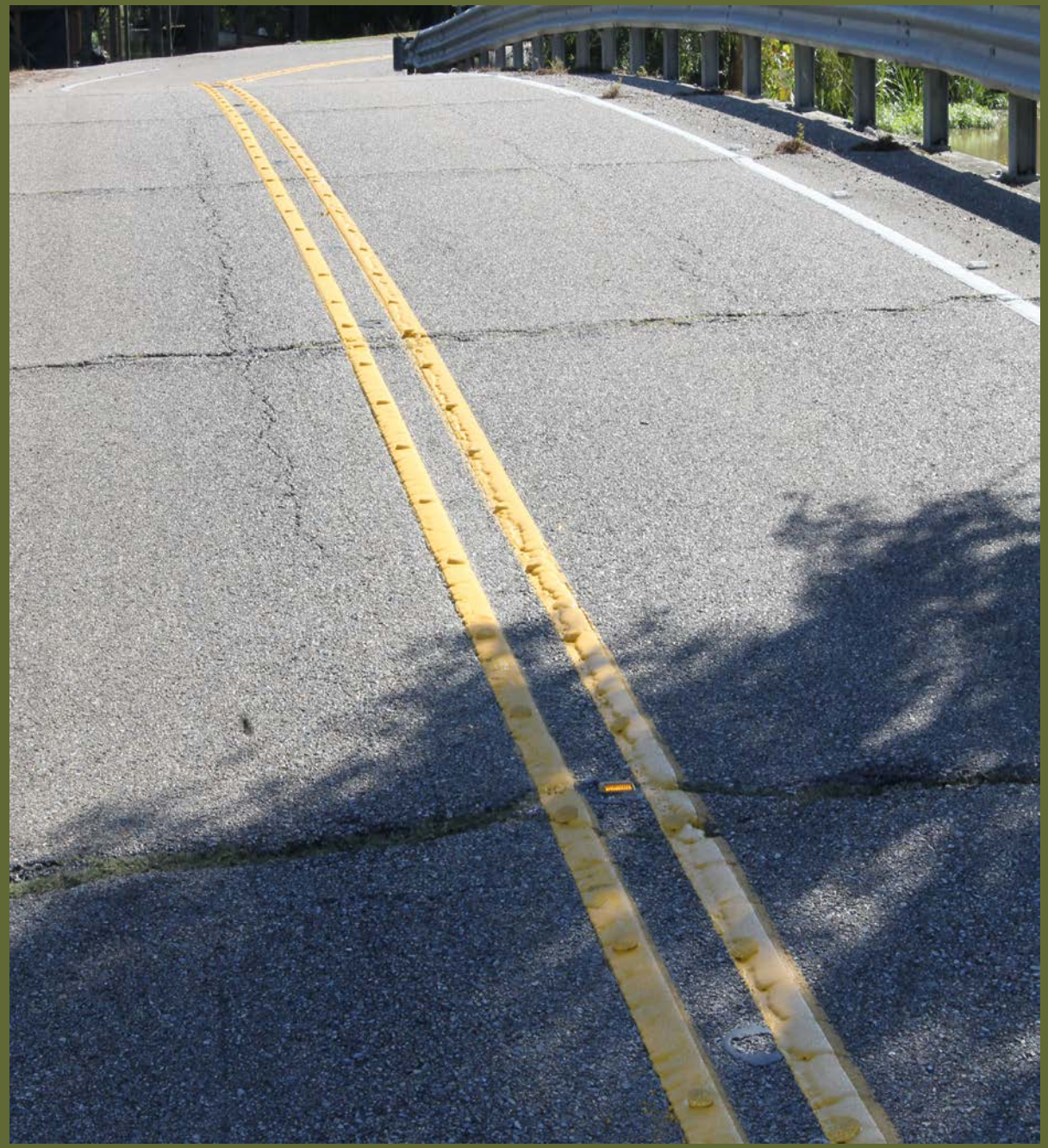

Tiger Bluff Cir
Tiger Bluff Cir
Tiger Bluff Cir
Tiger Bluff Cir
Maurepas High School
A-Auto
Redbox
Dollar General
Red Loupe Rd
Red Loupe Rd
22


Jason Duhe Road
Jason Duhe Road
Jason Duhe Road
Amite River
Old River Rd
Old River Rd
Amite River
Amite River
22
22
22
22
22

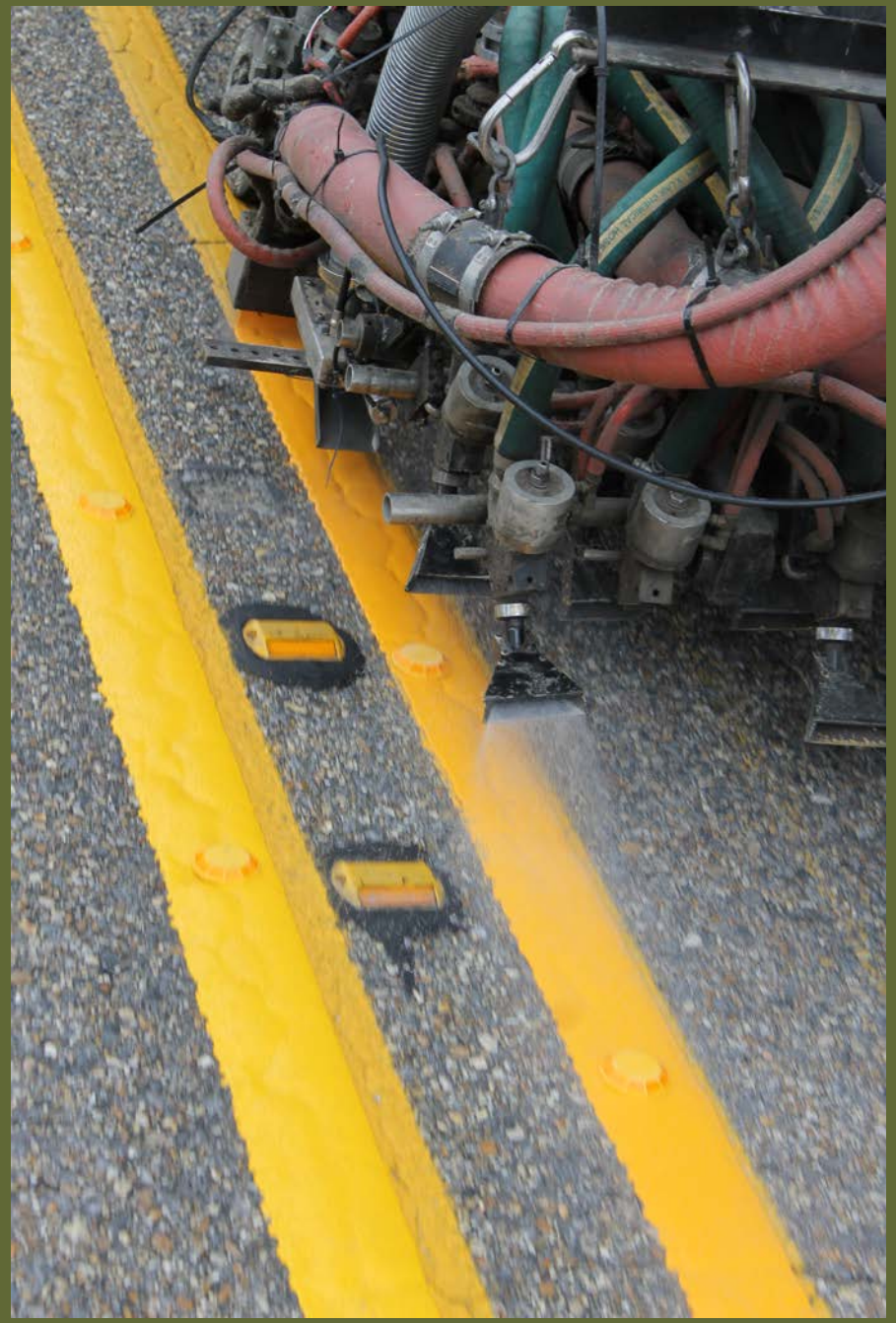

LA-22

CROWN'S COOKIES

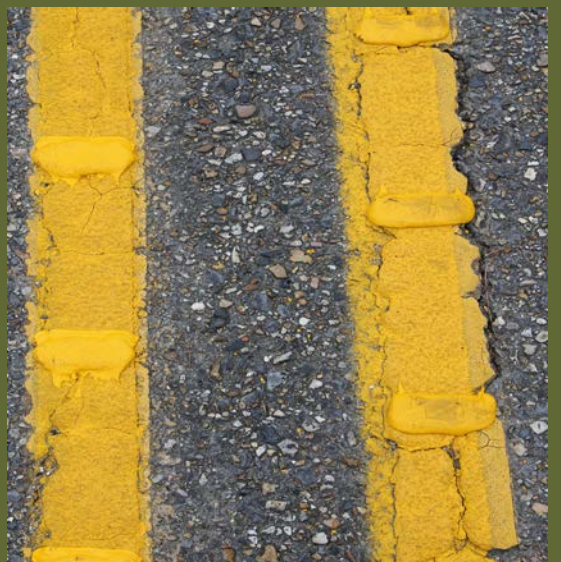




CROWN UFO’s



SWARCO PROFILED THERMOPLASTIC



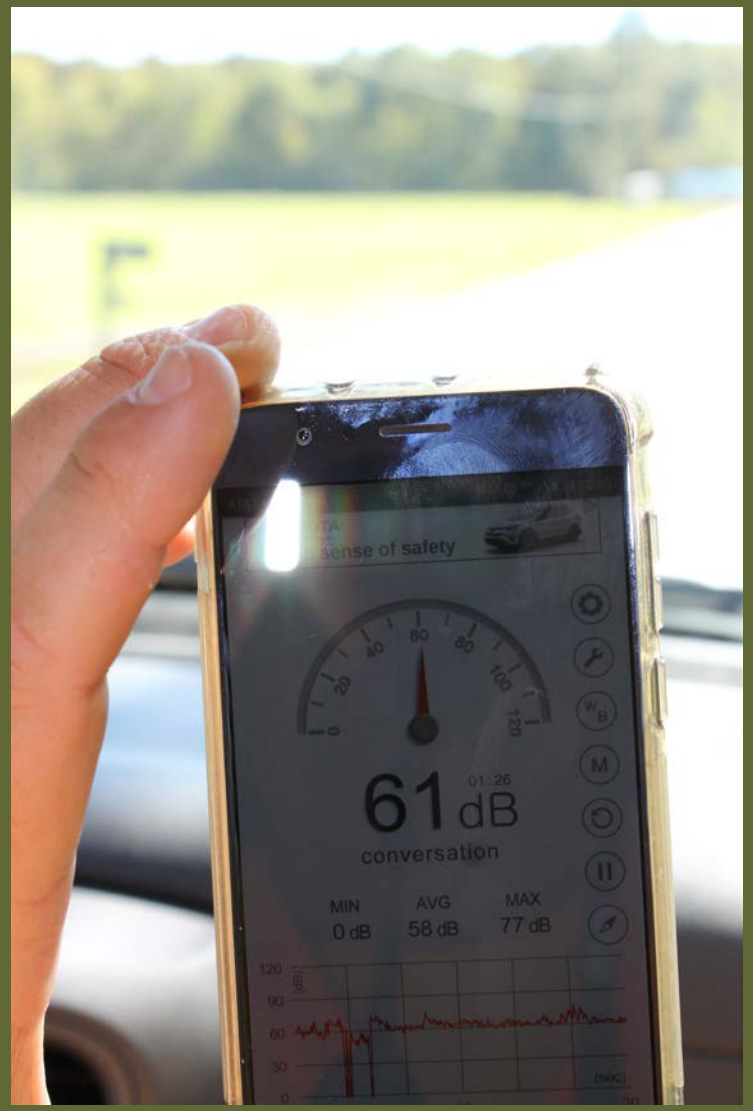
Ennis Flint Vibraline I & II

LTRC will be evaluating and obtaining on-site testing of retroreflectivity and noise levels. They purchased a Laserlux G7 mobile retroreflectometer and decibel meter.

Testing will include initial readings, 30 day, and quarterly readings.

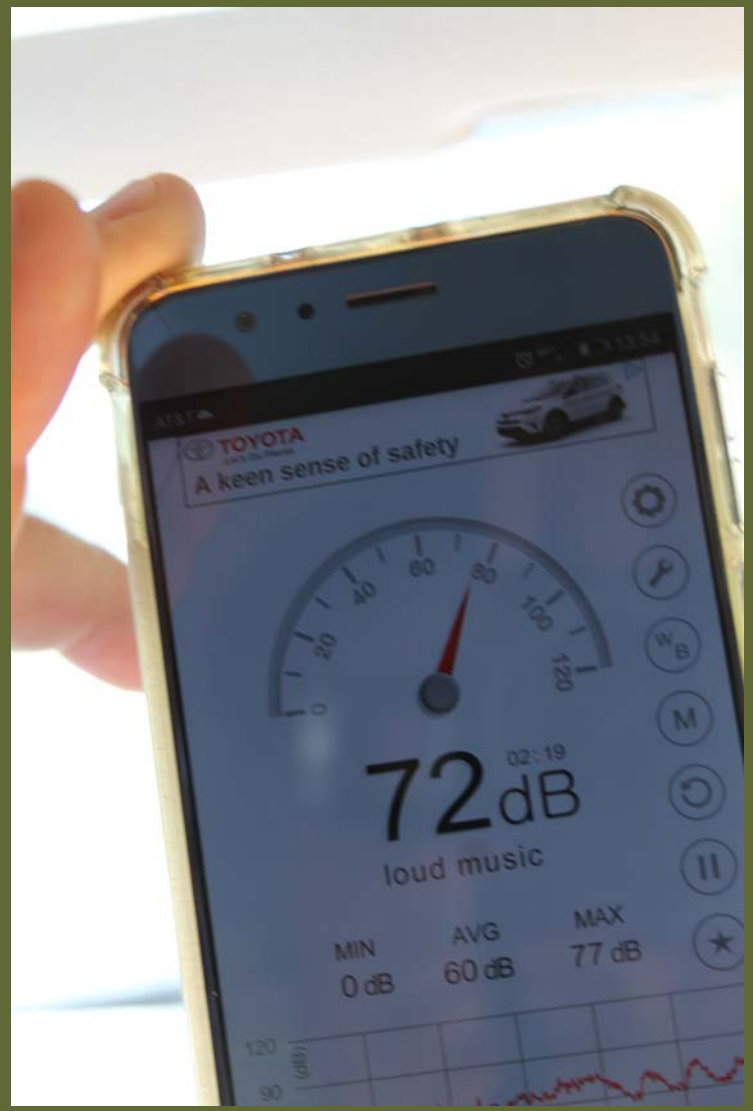

Default_Route
LA_22_EBIS_TEST
Y
650
RPM
1000
Odometer
0.842mi
Recording
Start
0
Interval
0.01
217.1
449.5
Left
Width 3.0in
Contrast 0.92
Found 655
RPM 0
Color Yellow
Right
Width 3.7in
Contrast 0.89
Found 569
RPM 4
Color Yellow
Pass/Fail Limits
Yellow
White
Direction
Up
Down
Level
Auto
Home
OK
Condition_0
Condition_1
Condition_2
Condition_3
Condition_4
Condition_5
Condition_6
Condition_7
Condition_8
Condition_9
GPS
Latitude
Longitude
Speed 14mph
Error
Fix Type 4
Environment
Amb. Temp. 70.83F
Amb. Hum. 21.2%
Status
Mem. Avl.
CPU 38.3
Date
Time 13:13:59
File Writes 85
2017-10-25 13:04:26 System Calibration Good
© RoadVista, - Purcell_v1, 1.111_(Esperanto))Oct 24 2017 09:19:09_1113_2021

Unofficial Readings



Crown's
Cookies
and UFO's
+10 db

Ennis
& Swarco
(Bumps)
+20-25 db
Image not shown



That's All Folks!!

Questions? Comments?
Suggestions?